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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Atty. Dkt. No. 03.09.17.1
Edward E. Miller)
) Art Unit: 1713
Serial No. 10/789,207) Examiner: Robert D. Harlan
Filing Date: 2/27/2004)
Title:) Duncan, Oklahoma 73534
)
WATER CONTROL IN A)
SUBSURFACE FORMATION) Date: February 27, 2007

RESPONSE TO OFFICE ACTION

Commissioner For Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

This is in response to the Final Action mailed January 26, 2007.

IN THE CLAIMS

A. Please amend claim 1 as follows:

1. A method of making a gel which is not water soluble comprised of making a water soluble polymer of an acrylic acid compound comprising:
combining an acrylic acid compound with a reactant selected from the group consisting of a divalent metal salt of said acrylic acid compound, a monovalent metal salt of said acrylic acid compound and mixtures thereof to form a polymer precursor,
combining a polymerization initiator with said precursor [and],
permitting said precursor to form said water soluble polymer[;], and
combining said water soluble polymer with a cross linking agent to form said gel;
wherein
said polymer precursor contains in the range of from about 0.65 to about 2.75 units of